# 9. Speedy

Program Name: Speedy.java Input File: speedy.dat

There are N people in a race. Some people have slow reaction times, and thus they start the race at different times. Because they all train differently, they all have different max running speeds. When the participants start the race, they immediately reach their max running speed. In the nature of the racing spirit, every time someone passes another person, the trailing person yells "Hey!" in hopes of slowing down the other (this effort has no effect). You as an observer of the race want to determine how many "Hey!"s have been yelled at a given time, T.

#### Input

The first line contains an integer C to denote the number of test cases. For the following C test cases, each test case starts with two integers, N T. The following N lines, each line follows the format of start\_time speed to denote the start time and speed of the racer.

## Output

Print out the number of "Hey!"s that have been yelled at time T.

#### **Constraints**

```
1 <= C <= 10
1 <= N <= 20
10 <= T <= 10,000
0 <= start_time <= 10,000
1 <= speed <= 10,000
start time <= T</pre>
```

## **Example Input File**

# **Example Output to Screen**

0 6